

CLAIMS

5 1/ A system for transforming the movements of at least
one joint of a user selected from the group constituted
by the knee, the elbow, the shoulder, the hip, or the
ankle, into control signals for a computer, the system
comprising a sleeve (21d, 21g, 41d, 41g) for putting on
over the joint and a movement sensor (20d, 20g, 40d, 40g)
fixed to the sleeve, the apparatus being characterized in
that the sensor (20d, 20g, 40d, 40g) is an on/off sensor
and is directly subject to the movements of the walls of
the sleeve (21d, 21g, 41d, 41g).

15 2/ Apparatus according to claim 1, characterized in that
the sensor (20d, 20g, 40d, 40g) is designed to be placed
and held in the hollow of the joint.

20 3/ Apparatus according to claim 1 or claim 2,
characterized in that the sensor includes a magnetic
detector (23d) for placing on one side of the joint and a
piece (22d) that is detectable by the detector (23d) and
placed on the other side of the joint.

25 4/ Apparatus according to claim 1 or claim 2,
characterized in that the sensor includes an air bag
(220d) and a sensor (23d) responsive to a pressure
increase that appears in said air bag (210d).

30 5/ Apparatus according to claim 1 or claim 2,
characterized in that the sensor (20d, 20g, 40d, 40g)
includes a mechanically-controlled switch (123d) for
placing on a first side of the joint, and a projecting
piece (122d) for placing on the opposite side of the
joint and designed to constitute an abutment for said
mechanically-controlled switch (123d).

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6/ Apparatus according to any preceding claim,
characterized in that the sensor (20d, 20g, 40d, 40g) is
designed to be placed on a shoulder of the user.

5 7/ Apparatus according to any preceding claim,
characterized in that the sensors (20d, 20g, 40d, 40g) is
designed to be placed on a hip of the user.

8/ Apparatus according to any preceding claim,
10 characterized in that the sensor (20d, 20g, 40d, 40g) is
designed to be placed on an ankle joint.

9/ Apparatus according to any preceding claim,
characterized in that it comprises mechanical members
15 (10, 30d, 30g) for applying mechanical actions on parts
of the user's body under the control of a computer.

10/ Apparatus according to any preceding claim,
characterized in that it includes a processor module (10)
20 suitable for transforming the output signals from the
sensor (20d, 20g, 40d, 40g) into signals usable by the
computer.

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AMENDED SHEET

This translation of an amended page covers the amendments made in the original.
However, the page breaks match the translation, so that this page is also a
replacement page that fits in with the remainder of the translation